

### Abstract

Polymer nanocomposite blends of at least two polymers and nanodispersed delaminated phyllosilicates and methods for their production. The polymer nanocomposite blends contain: a) polyamide (PA) from 55 to 95 percent by weight, b) polypropylene (PP) from 4 to 40 percent by weight, c) nanodisperse phyllosilicates from 1 to 9 percent by weight, d) up to 10% by wt. carboxylated polyolefins, particularly copolymers of ethylene with unsaturated carboxylic acids, so that the weight ratios of the compositions always add up to 100 percent by weight. Common stabilizers and fillers may be contained as additives.